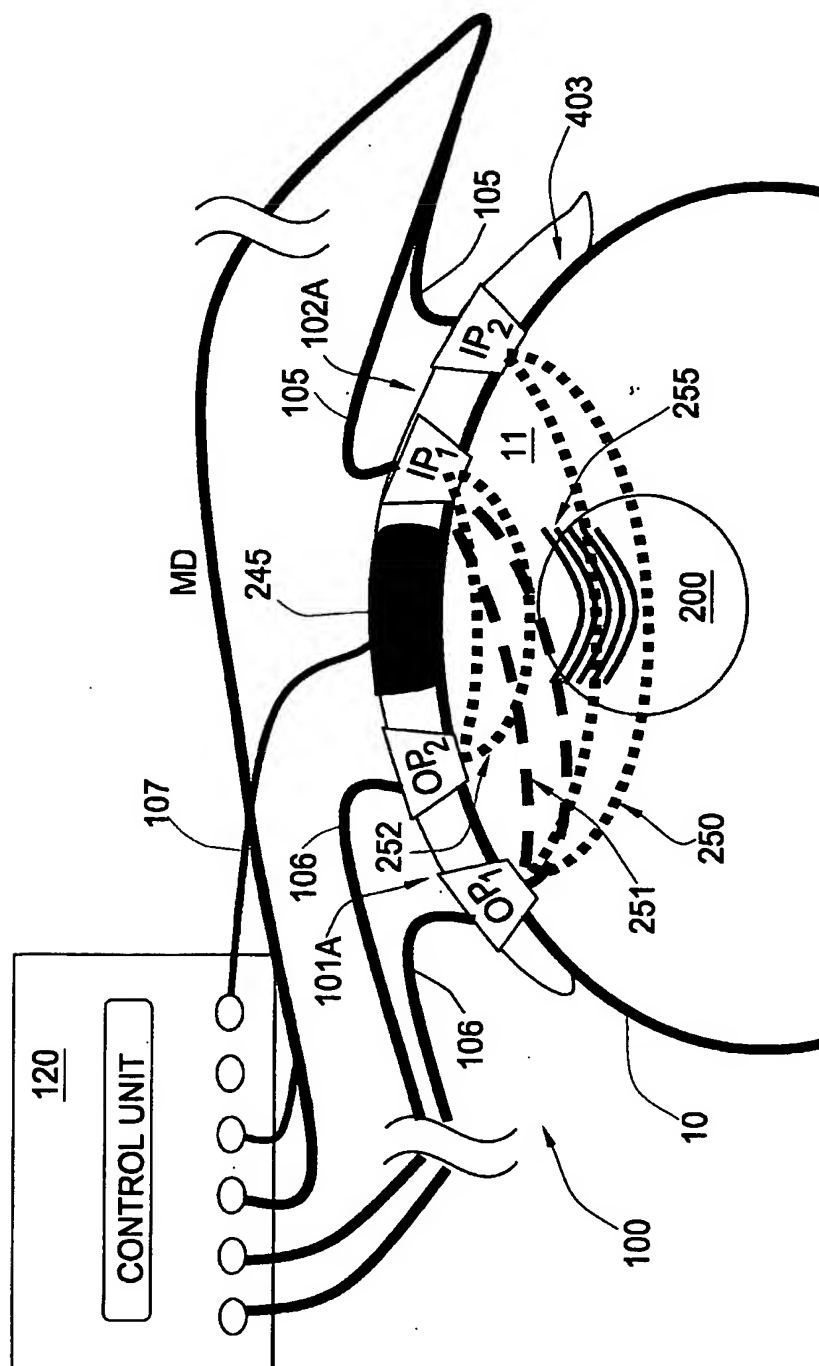


FIG. 1A



**FIG. 1B**

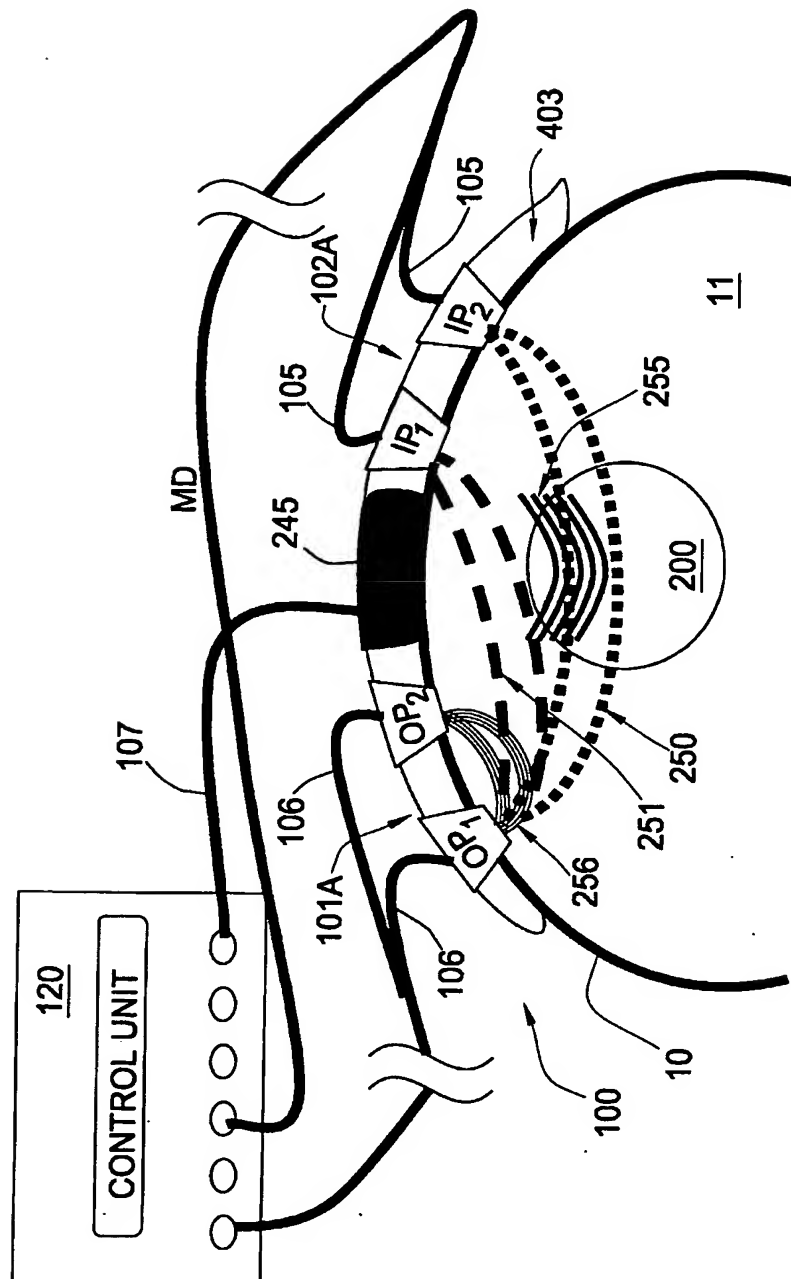


FIG. 1C

4/16

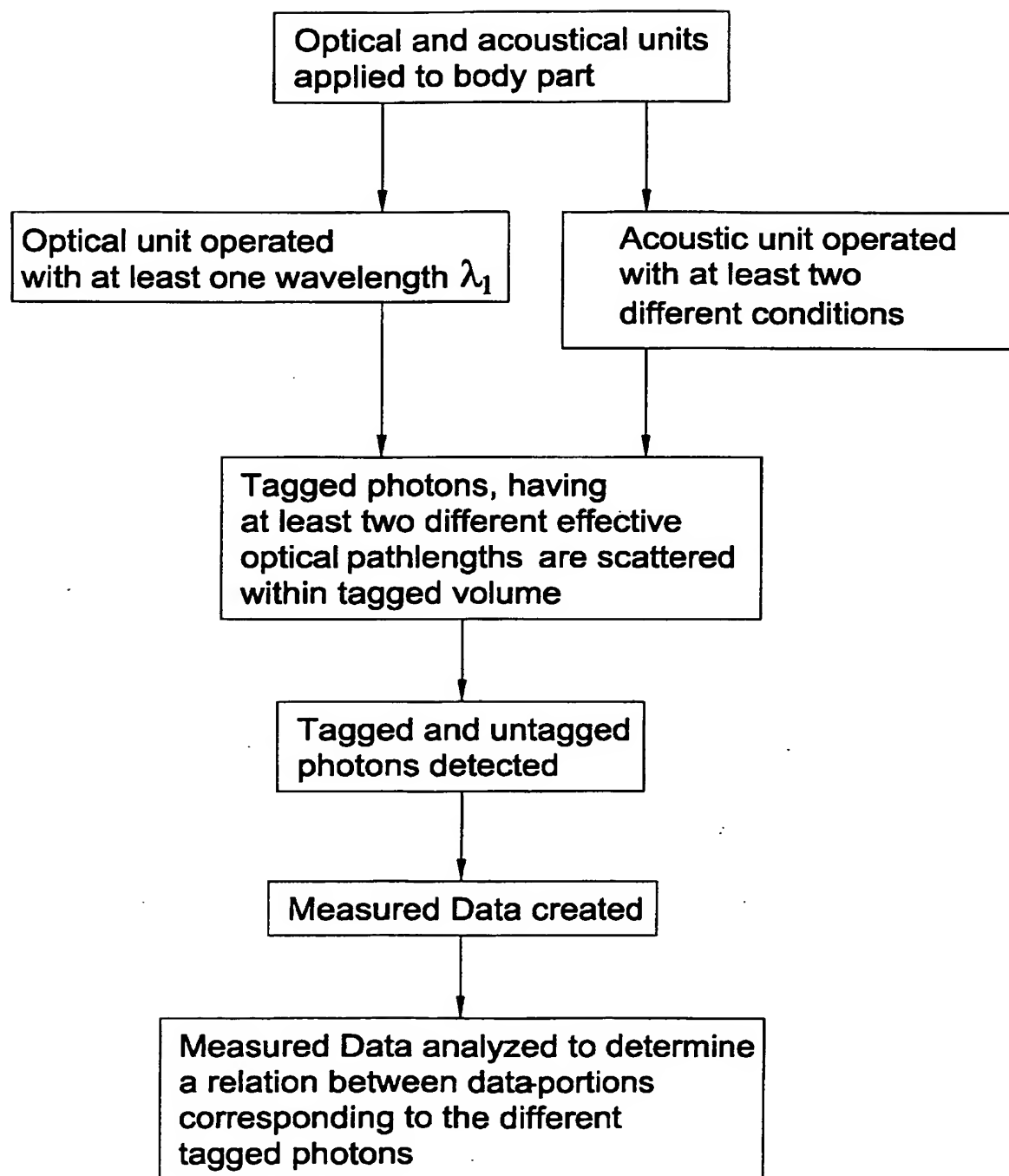


FIG. 1D

5/16

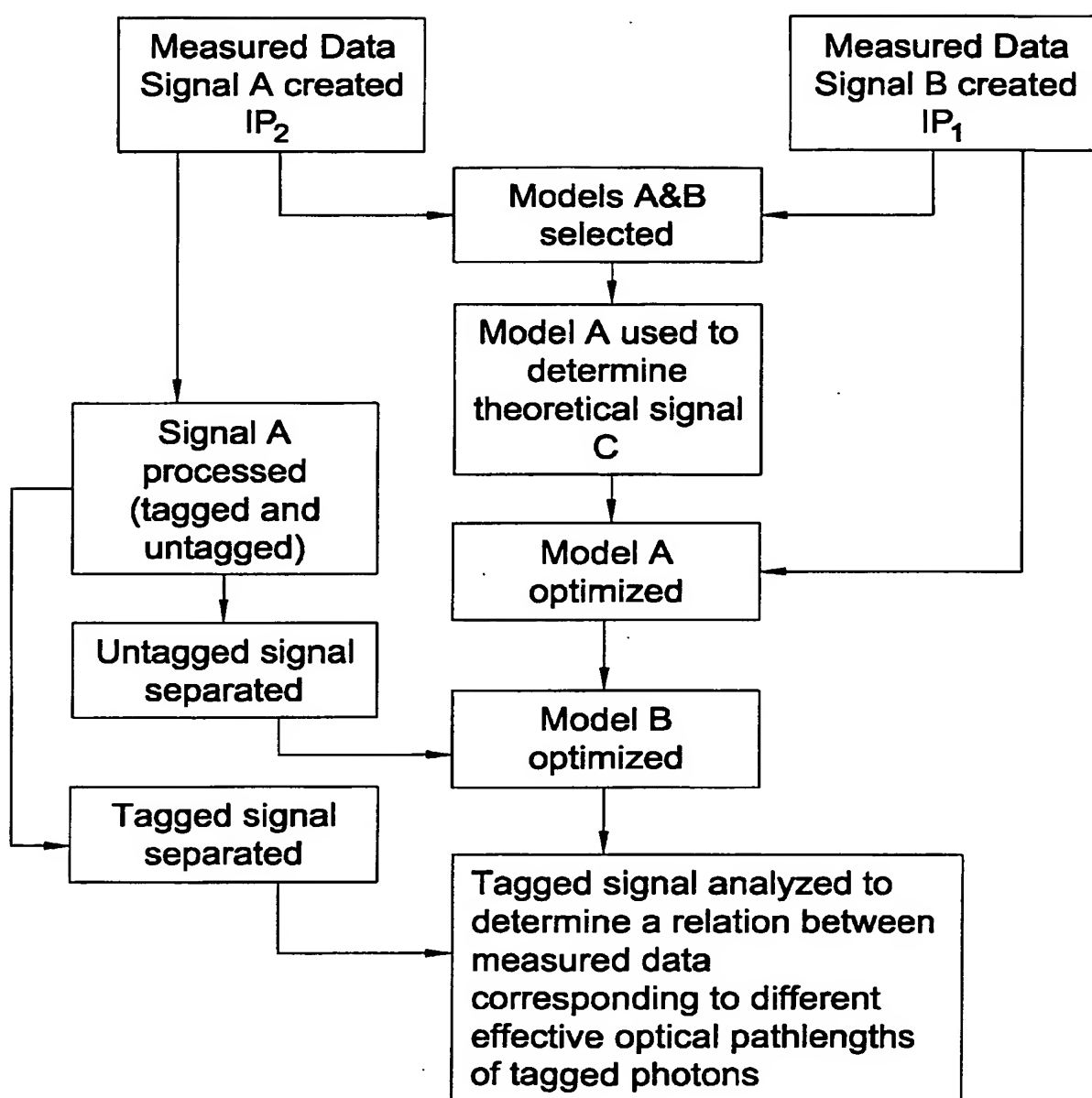


FIG. 1E

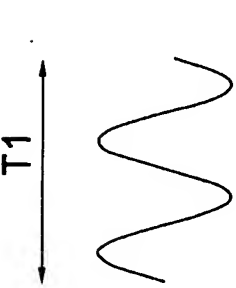
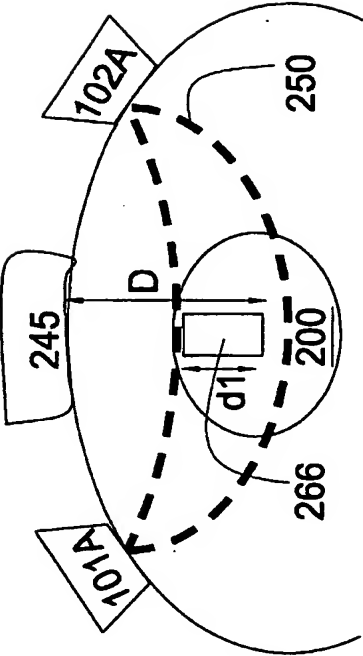


FIG. 2A

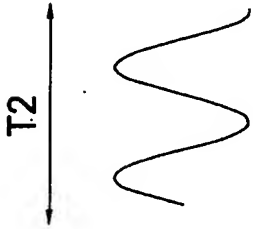
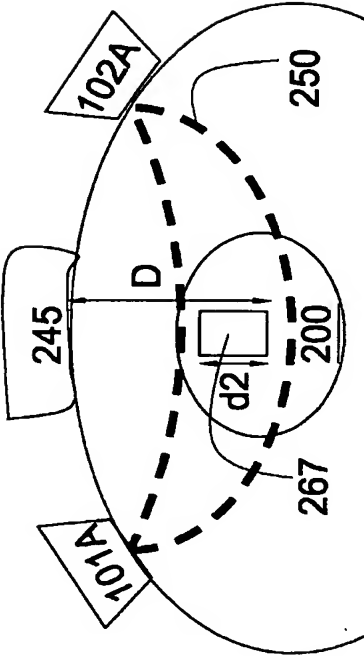


FIG. 2B

7/16

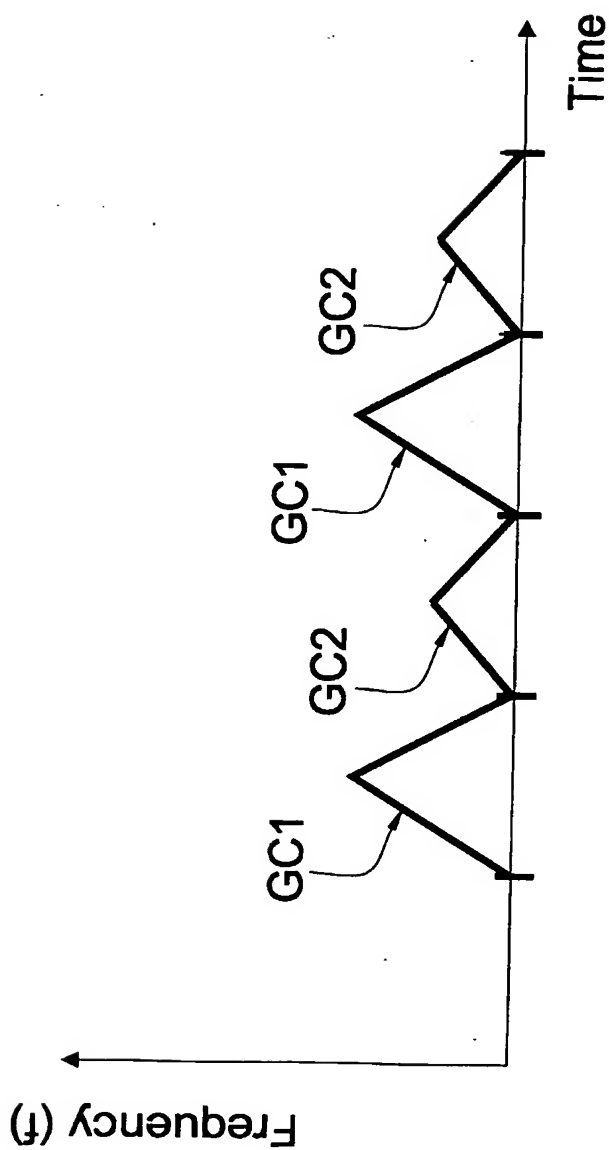


FIG. 2C

8/16

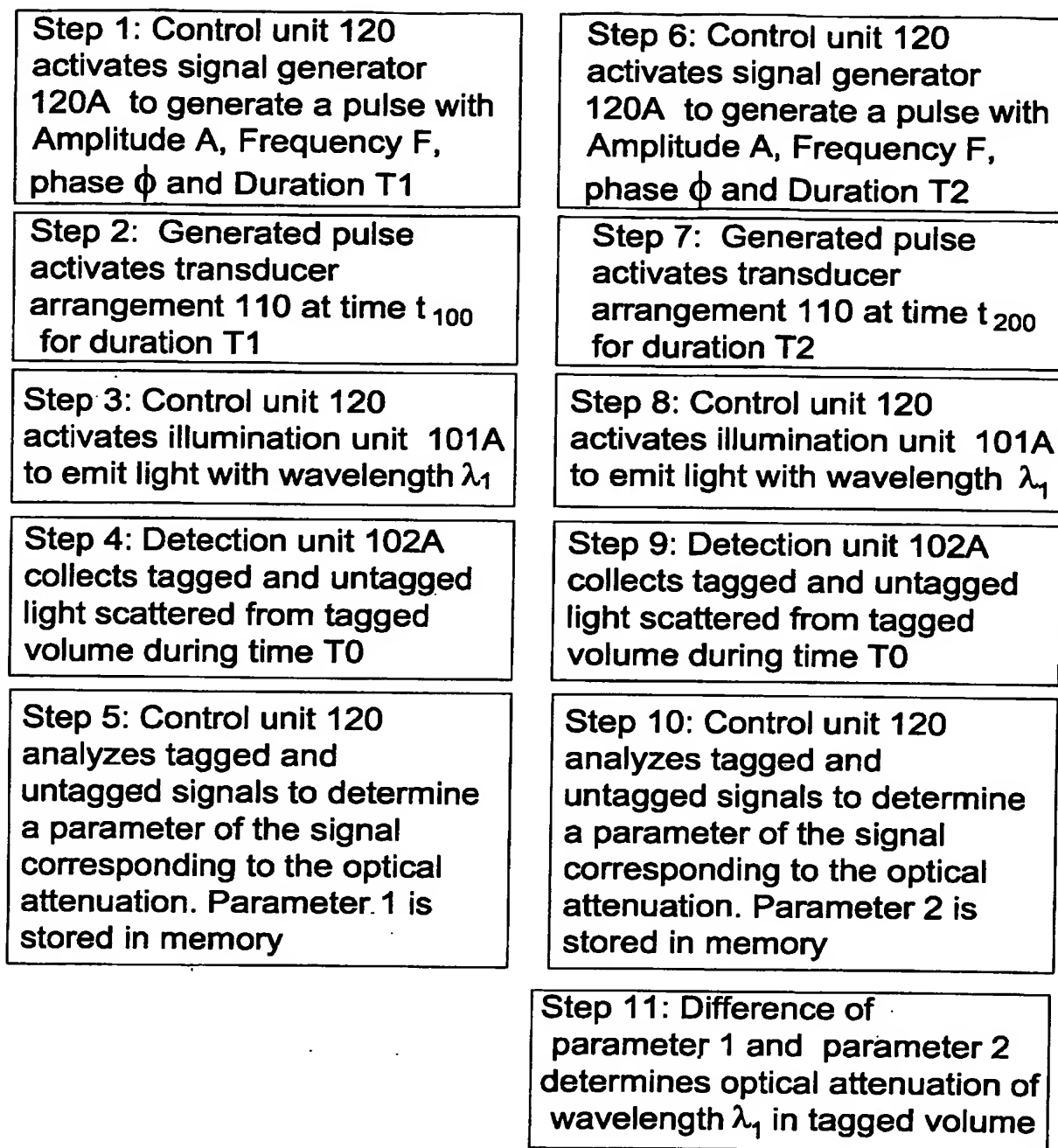


FIG. 3

Repeat steps 1- 11 with second wavelength of light  $\lambda_2$  to determine optical attenuation in tagged volume. Ratio between optical attenuation at the two wavelengths determines oxygen saturation of the region of interest



9/16

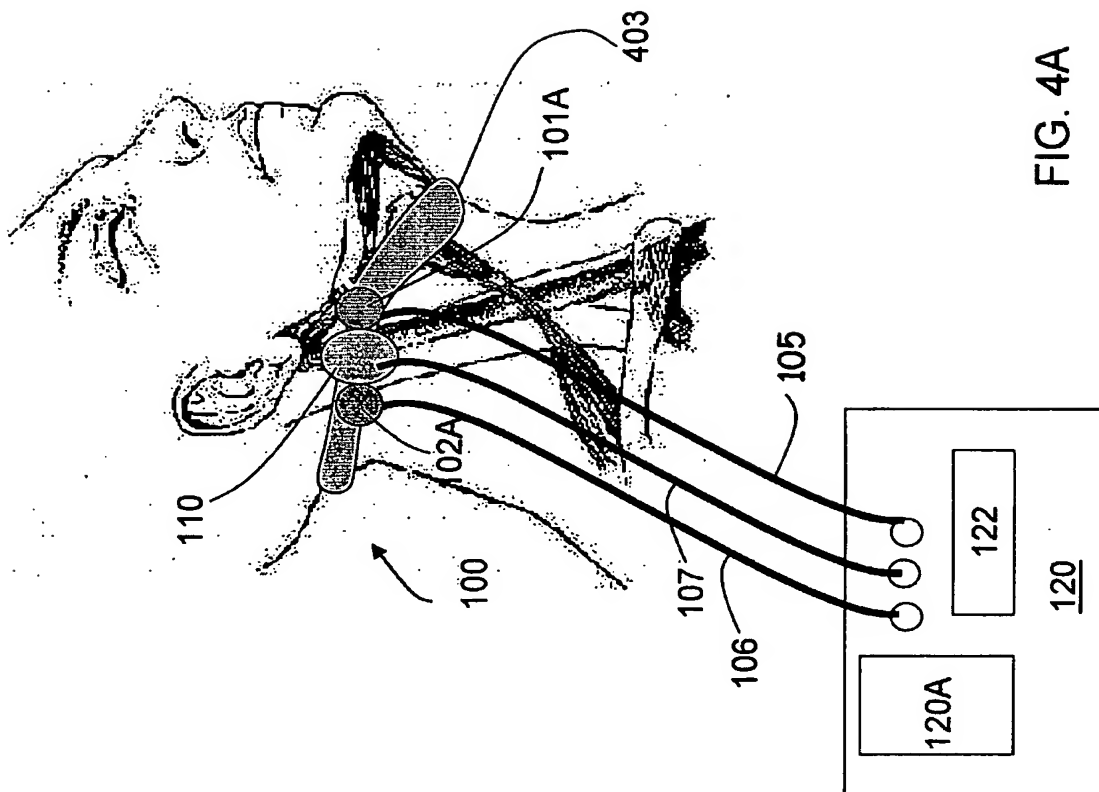


FIG. 4A

10/16

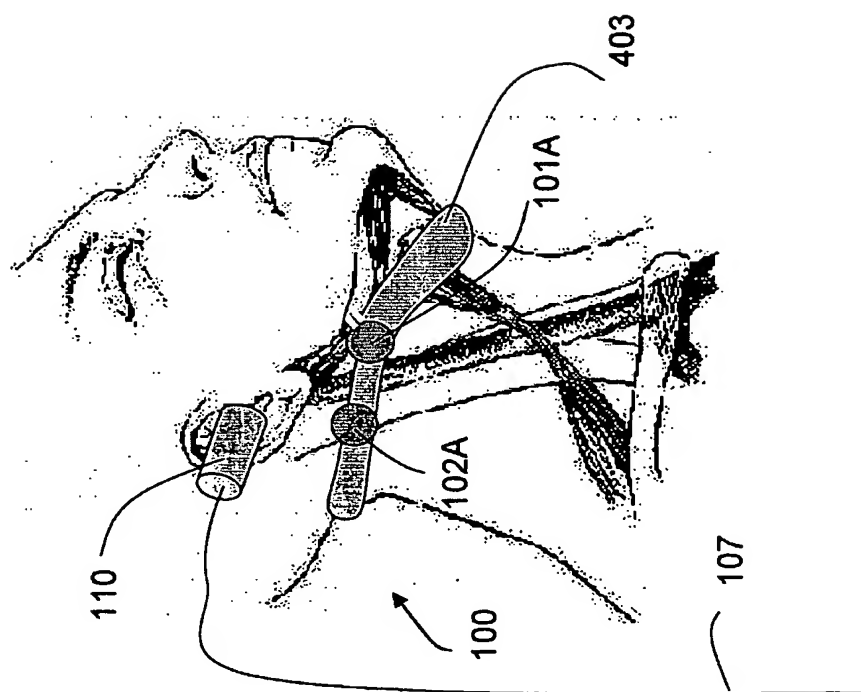


FIG. 4B

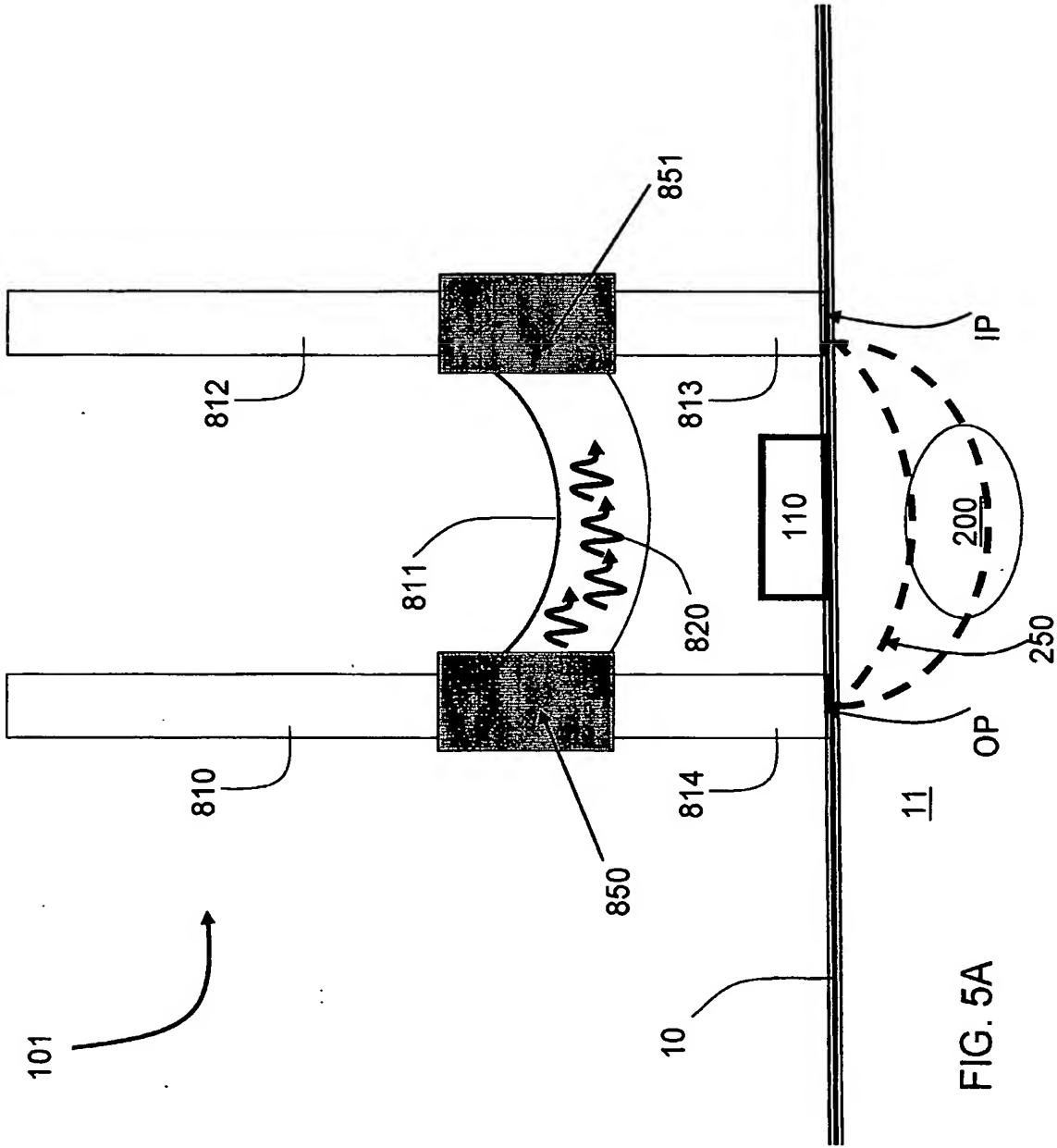


FIG. 5A

12/16

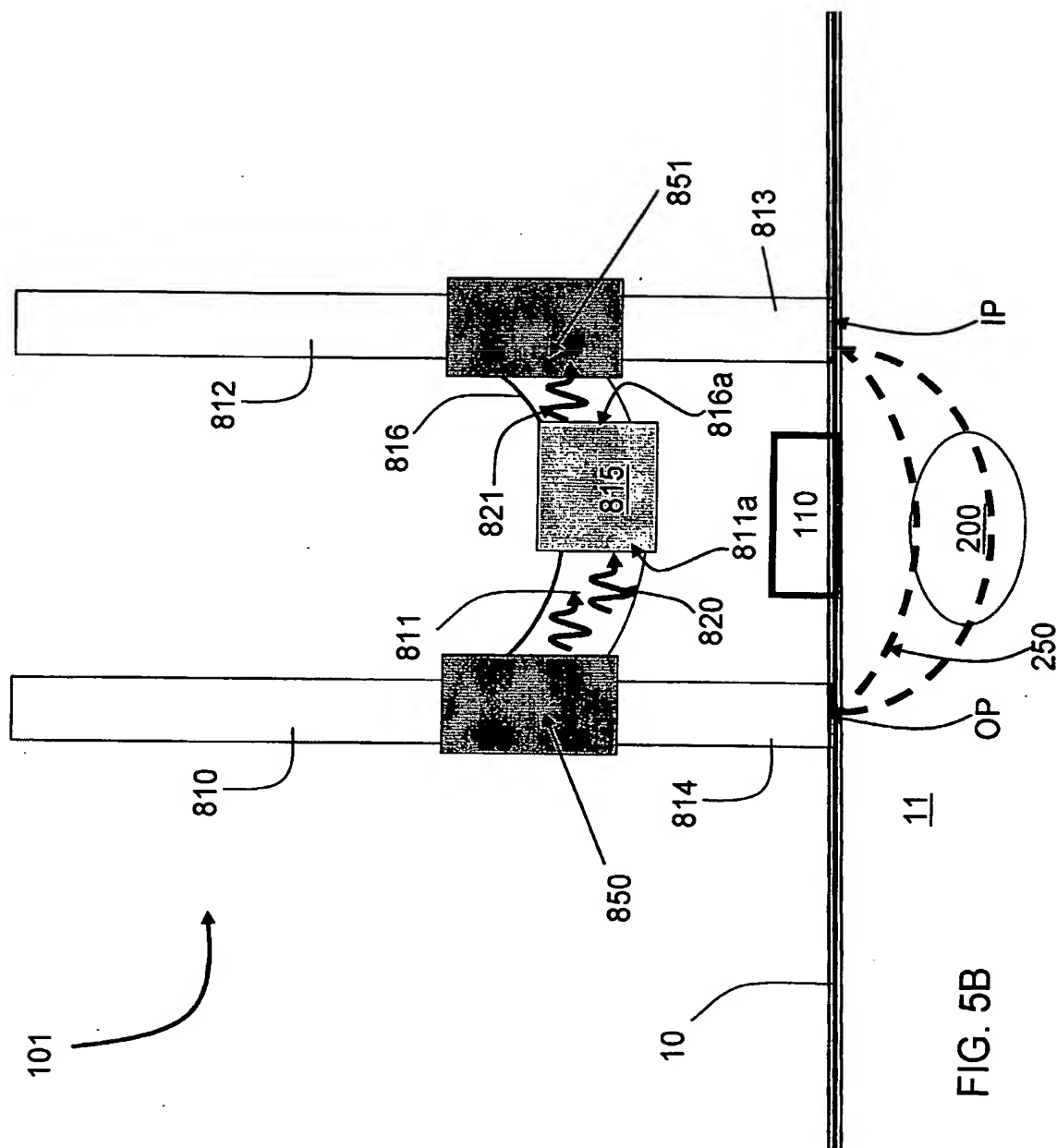


FIG. 5B

13/16

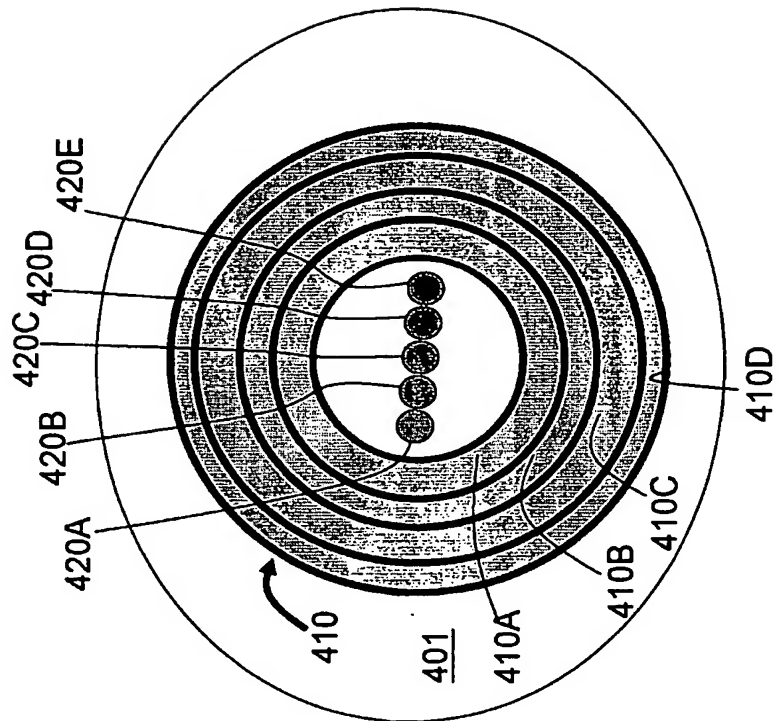


FIG. 6A

14/16

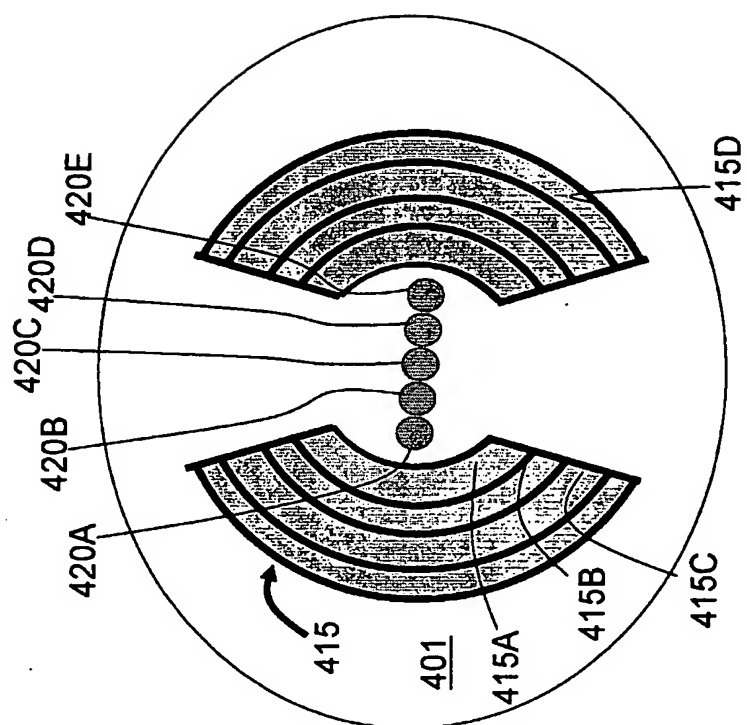


FIG. 6B

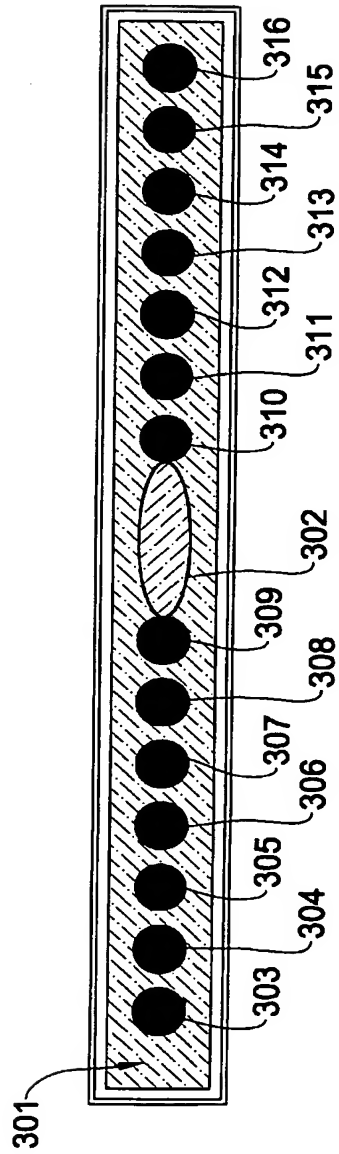


FIG. 7A

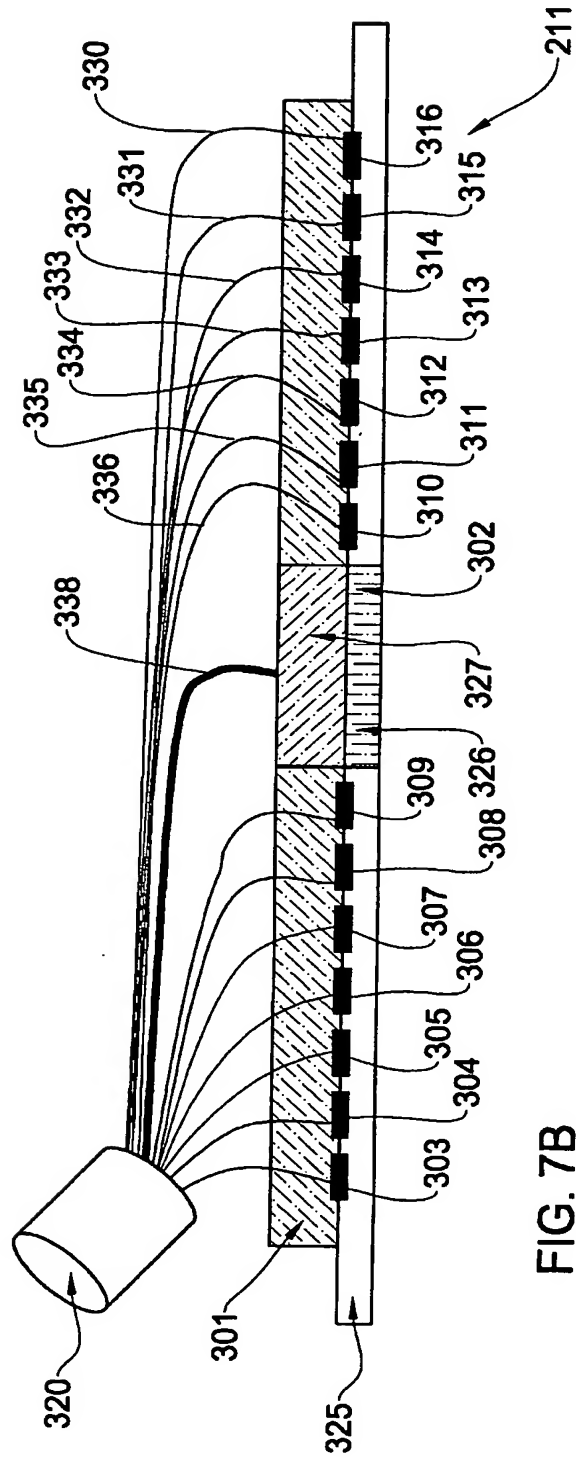


FIG. 7B

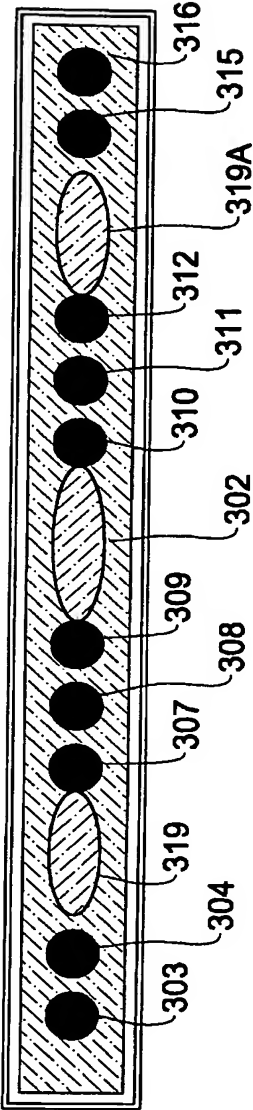


FIG. 8A

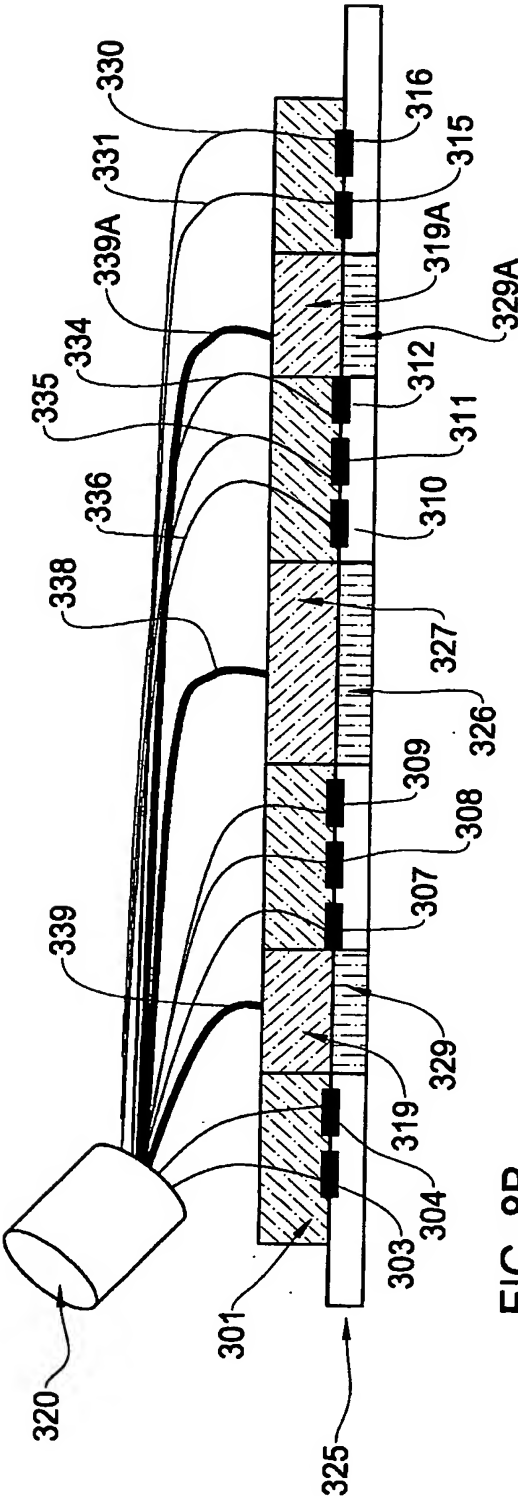


FIG. 8B